



Maryland Weekly Influenza Surveillance Activity Report

A summary of influenza surveillance indicators reported to DHMH for the week ending February 21, 2015

Prepared by the Office of Infectious Disease Epidemiology and Outbreak Response
Infectious Disease Bureau – Prevention and Health Promotion Administration
Maryland Department of Health and Mental Hygiene

The data presented in this document are provisional and subject to change as additional reports come in.

SUMMARY

During the week ending February 21, 2015, influenza-like illness (ILI) intensity in Maryland was **MINIMAL** and there was **WIDESPREAD** geographic activity. The proportion of outpatient visits for ILI reported by Sentinel Providers jumped, while the proportion of visits reported by Maryland Emergency Departments decreased. The proportion of MRITS respondents reporting ILI also dropped. The proportion of specimens testing positive for influenza at clinical laboratories increased for the first time in eight weeks. The DHMH lab tested fewer specimens, though the percent of specimens testing positive remained similar to last week. A total of 19 influenza-associated hospitalizations were reported. There were 4 respiratory outbreaks. Nationally, influenza activity is on the decline.

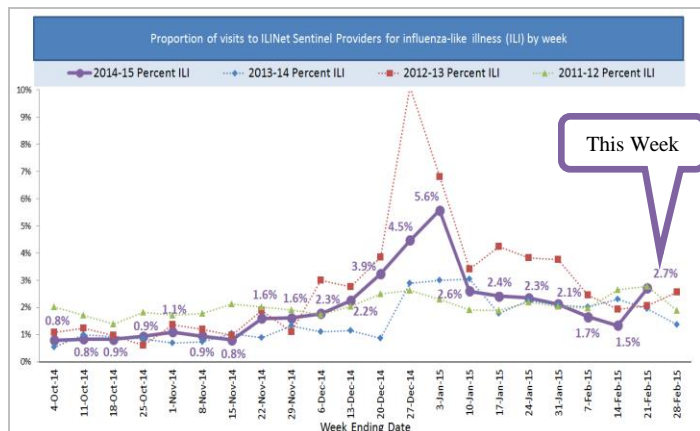
[Click here to visit our influenza surveillance web page](#)

ILI Intensity Levels
✓ Minimal
Low
Moderate
High

Influenza Geographic Spread
No Activity
Sporadic
Local
Regional
✓ Widespread

ILINet Sentinel Providers

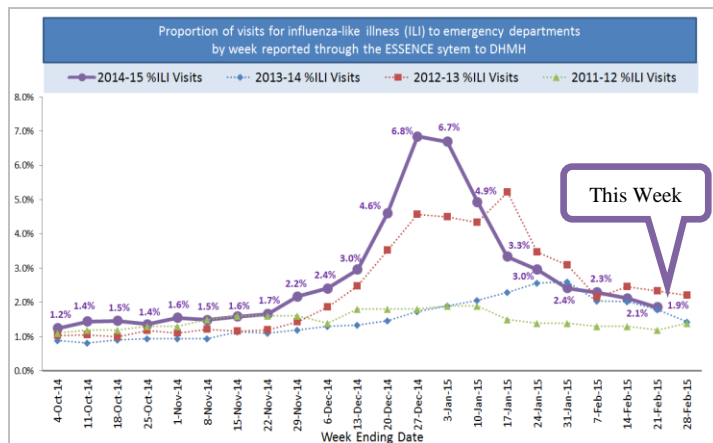
Nineteen sentinel providers reported a total of 4,869 visits this week. Of those, 132 (2.7%) were visits for ILI. This is **above** the Maryland baseline of 2.0%.



ILI Visits To Sentinel Providers By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	41 (31%)	39 (23%)	1111 (25%)
Age 5-24	46 (35%)	78 (46%)	1831 (41%)
Age 25-49	30 (23%)	33 (19%)	946 (21%)
Age 50-64	10 (8%)	17 (10%)	409 (9%)
Age ≥ 65	5 (4%)	4 (2%)	200 (4%)
Total ILI Visits	132 (100%)	171 (100%)	4497 (100%)

Visits to Emergency Departments for ILI

Emergency Departments in Maryland reported a total of 41,632 visits this week through the [ESSENCE surveillance system](#). Of those, 771 (1.9%) were visits for ILI.



ILI Visits To Emergency Departments By Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	190 (25%)	228 (25%)	6499 (24%)
Age 5-24	210 (27%)	265 (29%)	8270 (31%)
Age 25-49	227 (29%)	256 (28%)	6987 (26%)
Age 50-64	79 (10%)	111 (12%)	2844 (11%)
Age ≥ 65	65 (8%)	66 (7%)	2150 (8%)
Unknown	0 (0%)	0 (0%)	3 (<1%)
Total ILI Visits	771 (100%)	926 (100%)	26753 (100%)

Other states' influenza information:

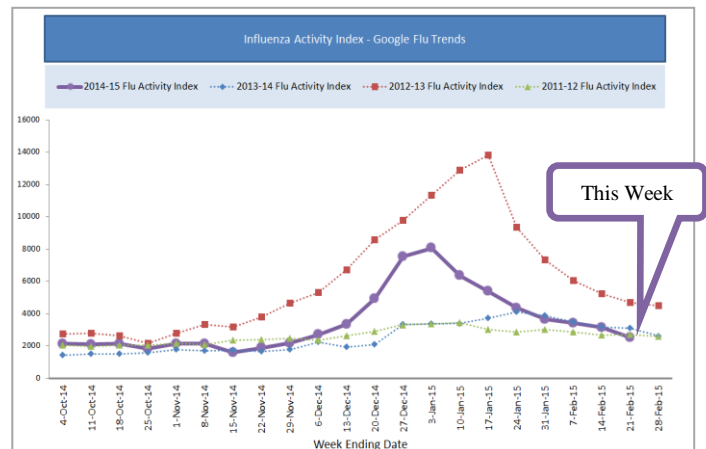
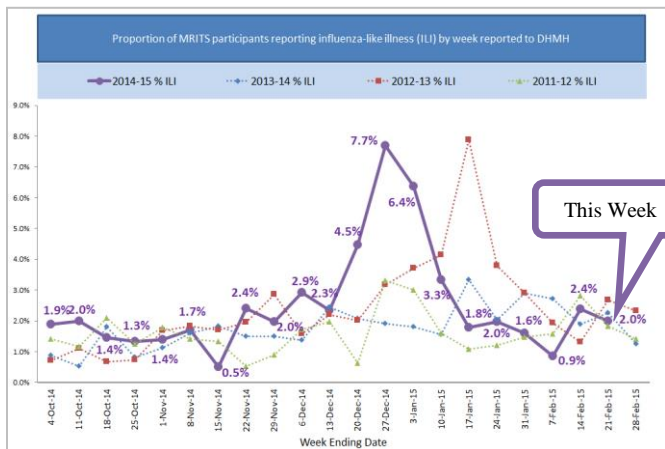
Delaware <http://dhss.delaware.gov/dph/epi/influenzahome.html>
District of Columbia <http://doh.dc.gov/service/influenza>
Pennsylvania [http://www.portal.state.pa.us/portal/server.pt/community/influenza_\(flu\)/14161](http://www.portal.state.pa.us/portal/server.pt/community/influenza_(flu)/14161)
Virginia <http://www.vdh.state.va.us/Epidemiology/flu/>
West Virginia <http://dhhr.wv.gov/oeeps/disease/flu/Pages/fluSurveillance.aspx>

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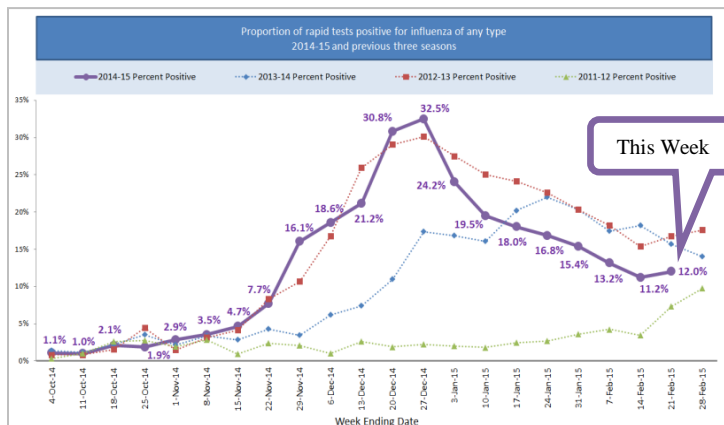
Community-based Influenza Surveillance (MRITS and Google Flu Trends)

MRITS is the Maryland Resident Influenza Tracking System, a weekly survey for influenza-like illness (ILI). A total of 551 residents responded to the [MRITS survey](#) this week. Of those, 11 (2.0%) reported having ILI and missing a cumulative 32 days of regular daily activities. According to [Google Flu Trends](#), influenza activity is "Low" in Maryland.

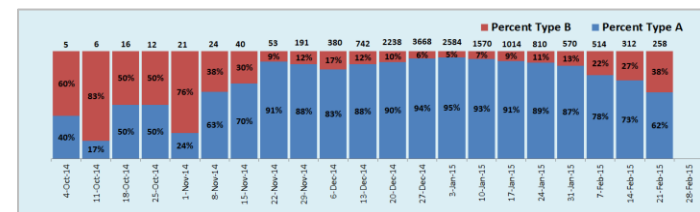


Clinical Laboratory Influenza Testing

Thirty-three clinical laboratories reported performing 2,146 influenza diagnostic tests, mostly rapid influenza diagnostic tests (RIDTs). Of those, 258 (12.0%) were positive for influenza. Of those testing positive, 160 (62.0%) were influenza Type A and 98 (38.0%) were influenza Type B. The [reliability of RIDTs](#) depends largely on the conditions under which they are used. False-positive (and true-negative) results are more likely to occur when the disease prevalence in the community is low, which is generally at the beginning and end of the influenza season and during the summer.

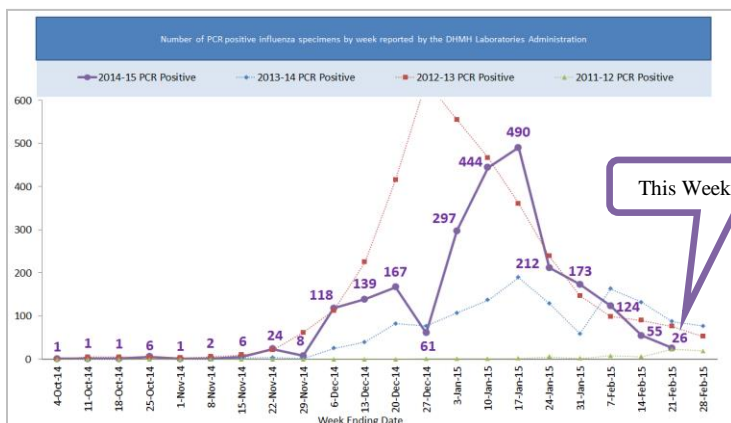


Positive Rapid Flu Tests by Type	This Week Number (%)	Last Week Number (%)	Season Number (%)
Type A	160 (62%)	228 (73%)	13528 (90%)
Type B	98 (38%)	84 (27%)	1500 (10%)
Total	258 (100%)	312 (100%)	15028 (100%)



State Laboratories Administration Influenza Testing

The DHMH Laboratories Administration performed a total of 95 PCR tests for influenza and 26 (27.4%) specimens tested positive. Of those 20 (76.9%) were Type A (H3N2) and 6 (23.1%) were Type B. PCR testing is more reliable than RIDT. The DHMH testing identifies subtypes of influenza A, information that is not available from the RIDT results. The table below summarizes results by type and subtype.



Positive PCR Tests by Type (Subtype)	This Week Number (%)	Last Week Number (%)	Season Number (%)
Type A (H1)	--	--	2 (<1%)
Type A (H3)	20 (77%)	52 (95%)	2314 (98%)
Type B	6 (23%)	3 (5%)	38 (2%)
A (H3) - B Dual Infection	--	--	2 (<1%)
Total	26 (100%)	55 (100%)	2356 (100%)

Where to get an influenza vaccination

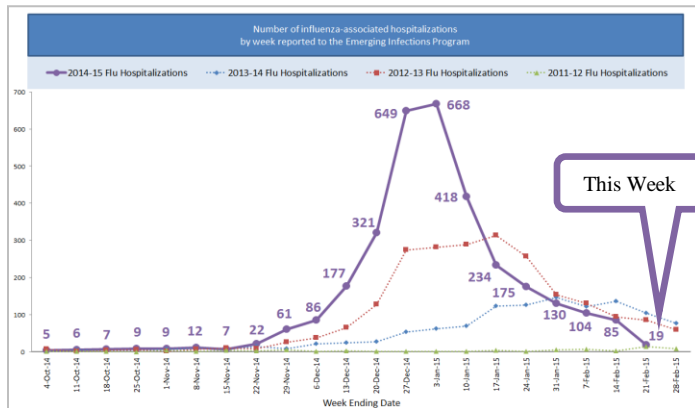
Interested in getting a flu vaccine for the 2014-15 influenza season? Go to <http://dhmh.maryland.gov/flum/d/SitePages/getvaccinated.aspx> and click on your county/city of residence. You will be redirected to your local health department website for local information on where to get your flu vaccine.

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Influenza-associated Hospitalizations

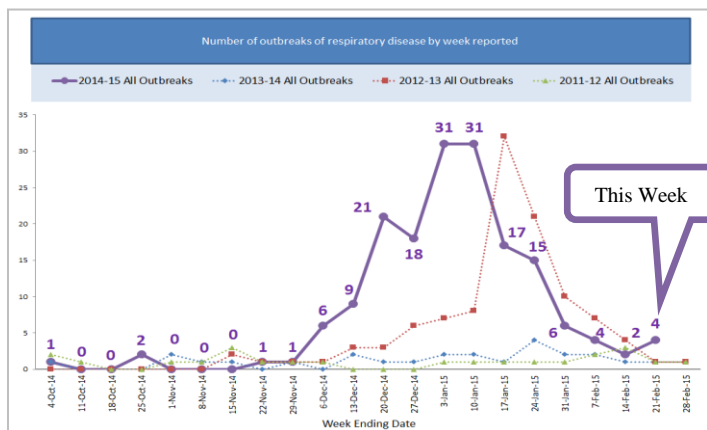
For this week, hospitals in Maryland reported 19 influenza-associated hospitalizations. (A person with an overnight hospital stay along with a positive influenza test of any kind, e.g. RIDT or PCR, is considered an “influenza-associated hospitalization” for purposes of influenza surveillance.)



Influenza-Associated Hospitalizations by Age Group	This Week Number (%)	Last Week Number (%)	Season Number (%)
Age 0-4	0 (0%)	5 (6%)	154 (5%)
Age 5-17	1 (5%)	6 (7%)	74 (2%)
Age 18-24	0 (0%)	1 (1%)	70 (2%)
Age 25-49	7 (37%)	8 (9%)	329 (10%)
Age 50-64	5 (26%)	20 (24%)	511 (16%)
Age ≥ 65	6 (32%)	45 (53%)	2066 (64%)
Total	19 (100%)	85 (100%)	3204 (100%)

Outbreaks of Respiratory Disease

There were 4 respiratory outbreaks reported to DHMH this week. (Disease outbreaks of any kind are reportable in Maryland. Respiratory outbreaks may be reclassified once a causative agent is detected, e.g. from ILI to influenza.)



Respiratory Outbreaks by Type	This Week Number (%)	Last Week Number (%)	Season Number (%)
Influenza	4 (100%)	1 (50%)	119 (70%)
Influenza-like Illness	--	1 (50%)	35 (21%)
Pneumonia	--	--	15 (9%)
Other Respiratory	--	--	--
Total	4 (100%)	2 (100%)	169 (100%)

National Influenza Surveillance (CDC)

During week 7 (February 15-21, 2015), influenza activity continued to decrease, but remained elevated in the United States.

- Viral Surveillance:** Of 18,505 specimens tested and reported by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories during week 7, 2,236 (12.1%) were positive for influenza.
- Pneumonia and Influenza Mortality:** The proportion of deaths attributed to pneumonia and influenza (P&I) was above the epidemic threshold.
- Influenza-associated Pediatric Deaths:** Six influenza-associated pediatric deaths were reported.
- Influenza-associated Hospitalizations:** A cumulative rate for the season of 51.7 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported.
- Outpatient Illness Surveillance:** The proportion of outpatient visits for influenza-like illness (ILI) was 3.0%, above the national baseline of 2.0%. All 10 regions reported ILI at or above region-specific baseline levels. Puerto Rico and 11 states experienced high ILI activity; three states experienced moderate ILI activity; 16 states experienced low ILI activity; New York City and 20 states experienced minimal ILI activity; and the District of Columbia had insufficient data.
- Geographic Spread of Influenza:** The geographic spread of influenza in Guam and 20 states was reported as widespread; Puerto Rico, the U.S. Virgin Islands, and 25 states reported regional activity; and the District of Columbia and five states reported local activity.

